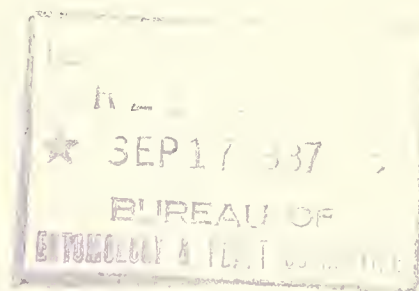


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THE INSECT PEST SURVEY
BULLETIN



Volume 17

Supplement to Number 7

September 15, 1937

BUREAU OF
ENTOMOLOGY AND PLANT QUARANTINE
UNITED STATES
DEPARTMENT OF AGRICULTURE
AND
THE STATE ENTOMOLOGICAL
AGENCIES COOPERATING

INSECT PEST SURVEY BULLETIN

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Hessian Fly Survey, Harvest-time 1937 United States Bureau of Entomology and Plant Quarantine Cooperating with State entomologists

As shown on the accompanying map, this survey covers the main winter-wheat region of central and eastern United States. Throughout most of this area, the Hessian fly is now about as scarce as it ever becomes. Weather conditions more or less unfavorable to its activity last fall and again last spring, combined with generally delayed sowing of wheat last fall, have reduced fly populations much below the threatening numbers prevailing in the central part of the winter-wheat belt a year ago.

In Nebraska, Kansas, and Oklahoma infestations at harvest time were extremely light and practically no material damage occurred or is likely to occur this year. Hessian fly populations are also generally low in Iowa, Missouri, northern Illinois, central and northeastern Indiana, Ohio, Kentucky, Tennessee, western and central Pennsylvania, Maryland, Delaware, Virginia, and North Carolina. In these States, however, occasional fields or localities now contain enough infestation to be a possible source of local trouble next fall. A notable feature this year is the unusual abundance of the fly in some northern districts, including northeastern Iowa, southern Wisconsin, and south-central Michigan. Other regions containing moderate-to-severe infestation, in which there is real danger of an outbreak next fall if weather should favor fly activity, are southern Illinois, northwestern and southern Indiana, and southeastern Pennsylvania. The farmers in all these districts should be warned of this danger and advised to observe the safe-sowing dates.

This report is based on the following summarized data, and additional information received from State and Federal entomologists of Iowa and Wisconsin. The field samples used were mostly 50 stems taken on a short circuit into one side of the field.

Area	Fields sampled	Stems infested		
		Average	Maximum	Minimum
	Number	Percent	Percent	Percent
Nebraska:				
Southwestern-----	7	0	0	0
South-central-----	28	0	0	0
Southeastern-----	68	1	22	0
Kansas:				
Northwestern-----	20	0	0	0
North-central-----	35	0	12	0
Northeastern-----	53	2	18	0
South-central-----	39	0	6	0
Southeastern-----	34	2	14	0
Oklahoma:				
North-central-----	27	0	0	0
Northeastern-----	26	0	0	0
Missouri:				
Northwestern-----	28	1	6	0
West-central-----	32	2	14	0
East-central-----	43	5	30	0
Southwestern-----	31	7	40	0
Southeastern-----	26	4	24	0
Illinois:*				
Northwestern-----	45	2	16	0
Central-----	29	4	32	0
East-central-----	30	2	12	0
Southwestern-----	30	11	56	0
Southeastern-----	37	9	48	0
Michigan:				
South-central-----	30	18	52	0
Southwestern (Berrien Co.):	7	4	12	0
Southeastern (Lenawee Co.):	7	2	6	0
Indiana:				
Northwestern-----	73	14	52	0
Northeastern-----	35	5	14	0
Central-----	71	7	28	0
Southwestern-----	64	18	70	0
Southeastern-----	42	19	84	0

*Mostly from survey by State entomologists.

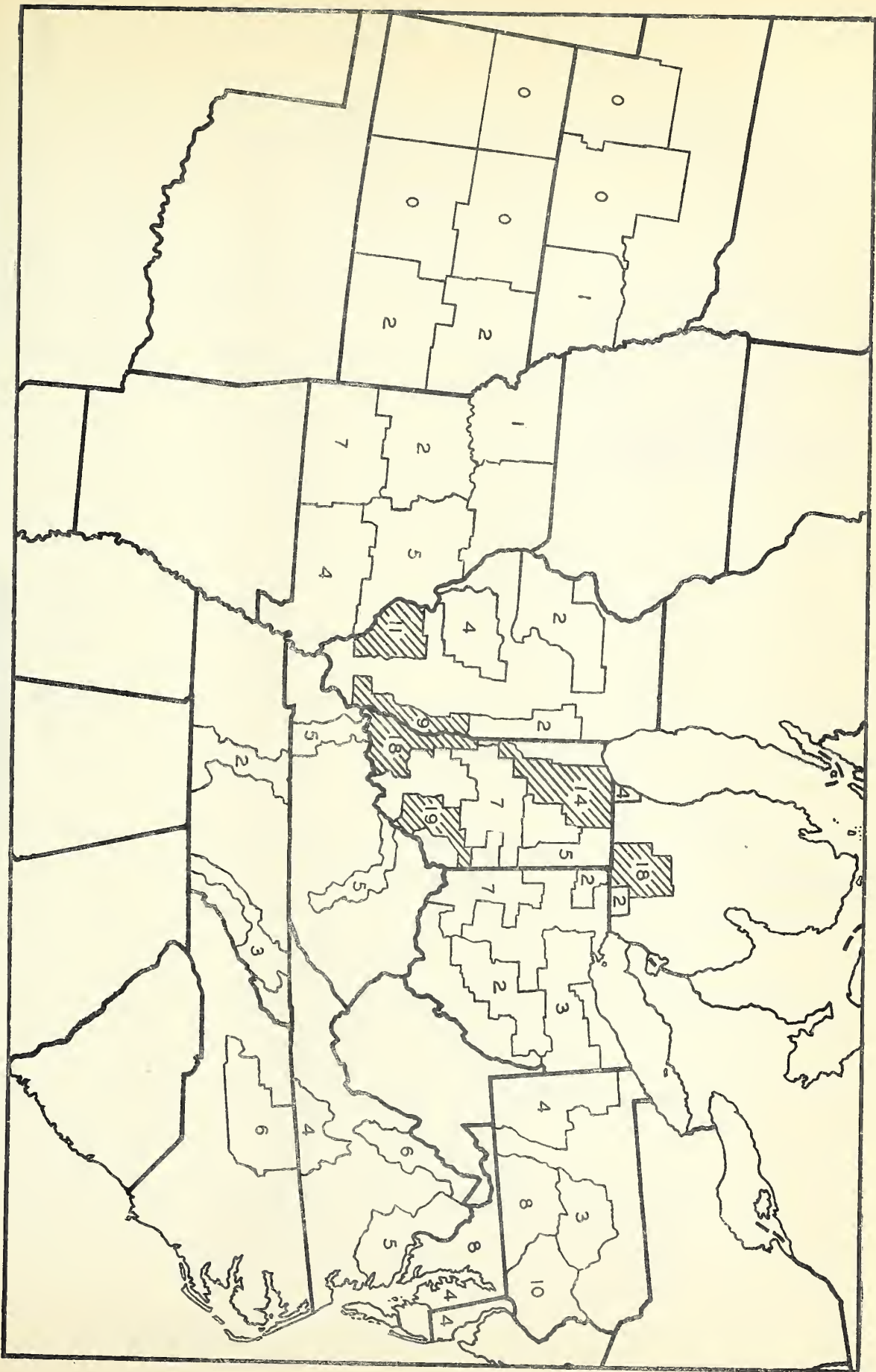
Area	Fields sampled Number	Stems infested		
		Average	Maximum	Minimum
		Percent	Percent	Percent
Ohio:**				
Northwestern-----	**16	2	-	-
North-central and northeastern:	**130	3	-	-
Southwestern-----	** 90	7	-	-
Southeastern-----	**110	2	-	-
Kentucky:				
Western-----	14	5	26	0
East-central-----	16	5	22	0
Tennessee:				
West-central-----	40	2	32	0
Eastern-----	43	3	16	0
Pennsylvania:				
Western-----	15	4	20	0
North-central-----	20	3	12	0
South-central-----	35	8	30	0
Eastern-----	34	10	68	0
Delaware-----	15	4	21	0
Maryland:				
Central-----	25	8	38	0
Eastern-----	15	4	16	0
Virginia:				
Northwestern-----	20	6	42	0
Northeastern-----	45	5	22	0
South-central-----	15	4	13	0
North Carolina:				
North-central-----	40	6	28	0

*Mostly from survey by State entomologists.

**Approximately.

Date		Description		Amount	
1917	Jan 1	Balance		100.00	
	2	Jan 2		100.00	
	3	Jan 3		100.00	
	4	Jan 4		100.00	
	5	Jan 5		100.00	
	6	Jan 6		100.00	
	7	Jan 7		100.00	
	8	Jan 8		100.00	
	9	Jan 9		100.00	
	10	Jan 10		100.00	
	11	Jan 11		100.00	
	12	Jan 12		100.00	
	13	Jan 13		100.00	
	14	Jan 14		100.00	
	15	Jan 15		100.00	
	16	Jan 16		100.00	
	17	Jan 17		100.00	
	18	Jan 18		100.00	
	19	Jan 19		100.00	
	20	Jan 20		100.00	
	21	Jan 21		100.00	
	22	Jan 22		100.00	
	23	Jan 23		100.00	
	24	Jan 24		100.00	
	25	Jan 25		100.00	
	26	Jan 26		100.00	
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	28	Jan 28		100.00	
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	12	Feb 12		100.00	
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	16	Feb 16		100.00	
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	28	Sep 28		100.00	
	29	Sep 29		100.00	
	30	Sep 30		100.00	
	1	Oct 1		100.00	
	2	Oct 2		100.00	
	3	Oct 3			

DE AT HARVEST TIME 1937



Numbers indicate percentage of infestation. Crosshatching indicates areas of moderate to severe infestation.

